Nova-Lite XL PANEL

Installation Guide

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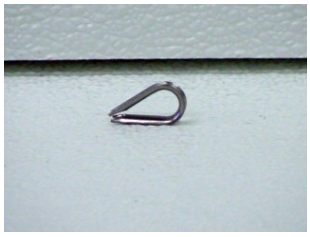
Installation Preparation

Hardware Included

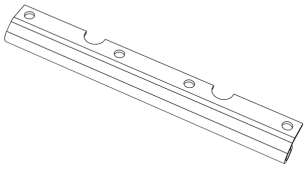
• SN020X9620
Keder Pickup Tab

• SN022X0402
Hex Head Tek Screw #10 x 3/4”

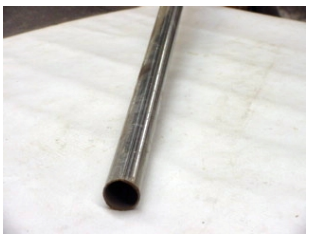
• SN022X4002
Hex Lag Screws Z 1/4 x 2



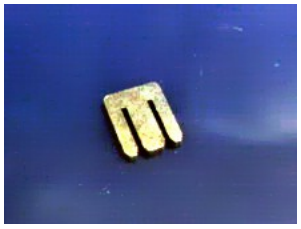
• SN020X2221
S.S. Cable Thimble 1/8



• SN127X1008
Nova-Lite XL Panel Joiner



• SN127X1009-11
Galvalume 1-1/2” Tube 8’ to 16’



• SN020X2230
Cable Keeper for 2.5” Pulley

• SN022X2050
Hex Head Tapcon Screw 1/4x1-1/4

• SN022X0725
Fender washer Zinc ½ X 2

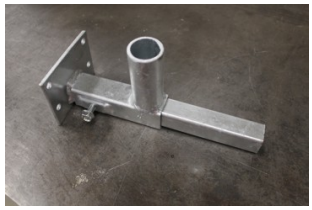
• SN020X2003-4
Stainless Cable 1/8”-3/32” Dia.

• SN022X4100
Flat Soc Woodscrews Z 8 x 1-1/4

• SN020X2000-2
Stainless Cable ¼”-3/16” Dia.

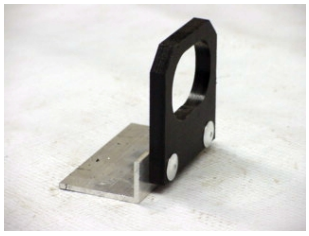
• SN127X1003
Nova-Lite Track Top Wheel Bracket

• SN020X2101-2
Galv. Mall. Wire clips ¼” or 3/16”

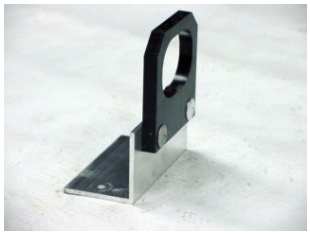


• SN127X1002
Nova-Lite Track Bottom Adjust. Bracket Unit

• SN020X2103
Galv. Mall. Wire clips 1/8”



• SN127X1005
Nova-Lite Track Guide, 1” Extension



• SN127X1006
Nova-Lite Track Guide, 2” Extension

• SN227X01??
Nova-Lite Panel Assembly

• SN022X2204
4” Long Heavy Eyescrew

• SN020X2234
Steel Pulley – 2 ½” Bearing

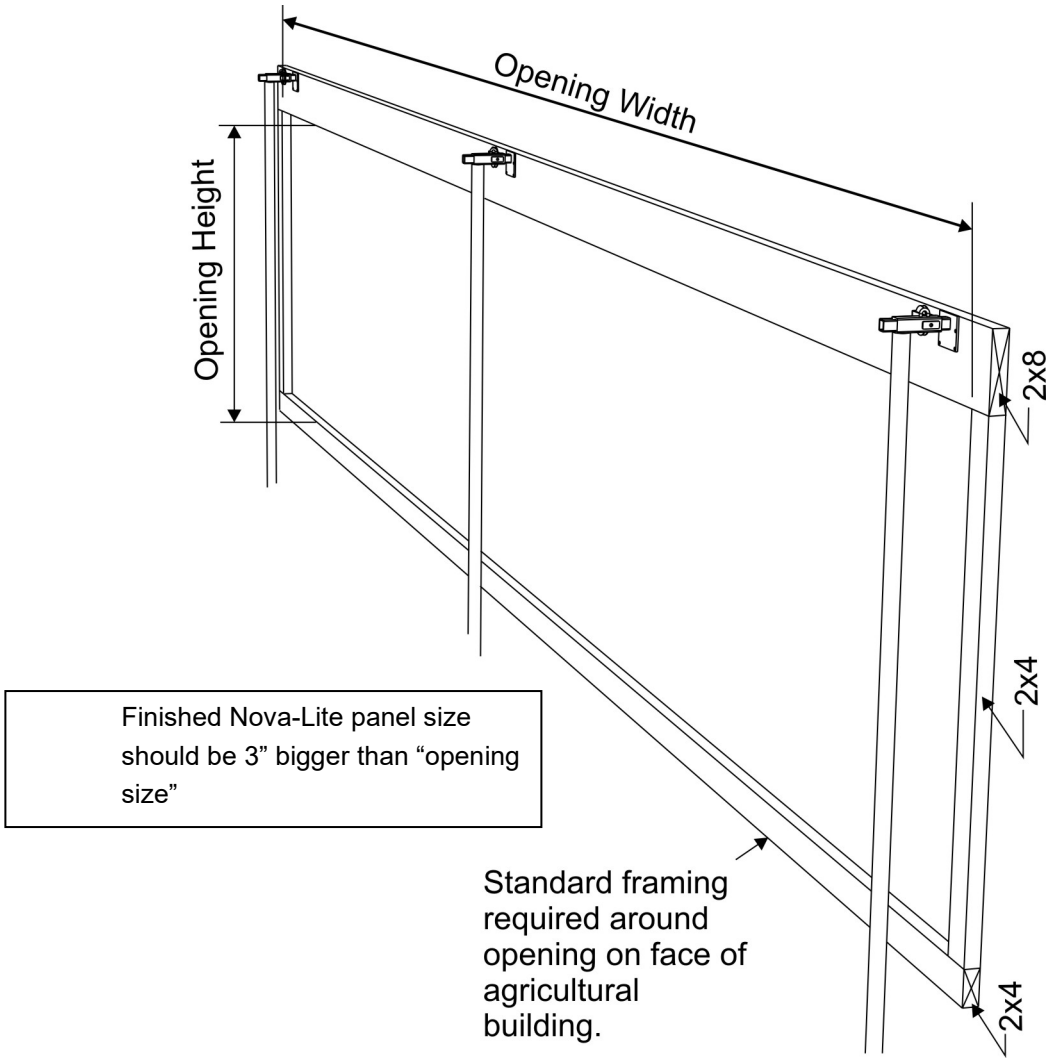
• SN850X0004
Alum. Flat Bar

Tools Required

- Cordless Drill
- 9/16” Socket
- 7/16” Socket
- 5/16” Socket
- 1/2” Socket
- Cable Cutters
- Tape Measure
- Level
- Hammer Drill (some applications)
- Hammer
- ½” Drill Bit
- Allen Keys (for actuator use only)
- Chop Saw or Hack Saw

NOTE: Illustrations/images may be changed without notice. All dimensions and specifications are approximate, and drawings are not to scale.

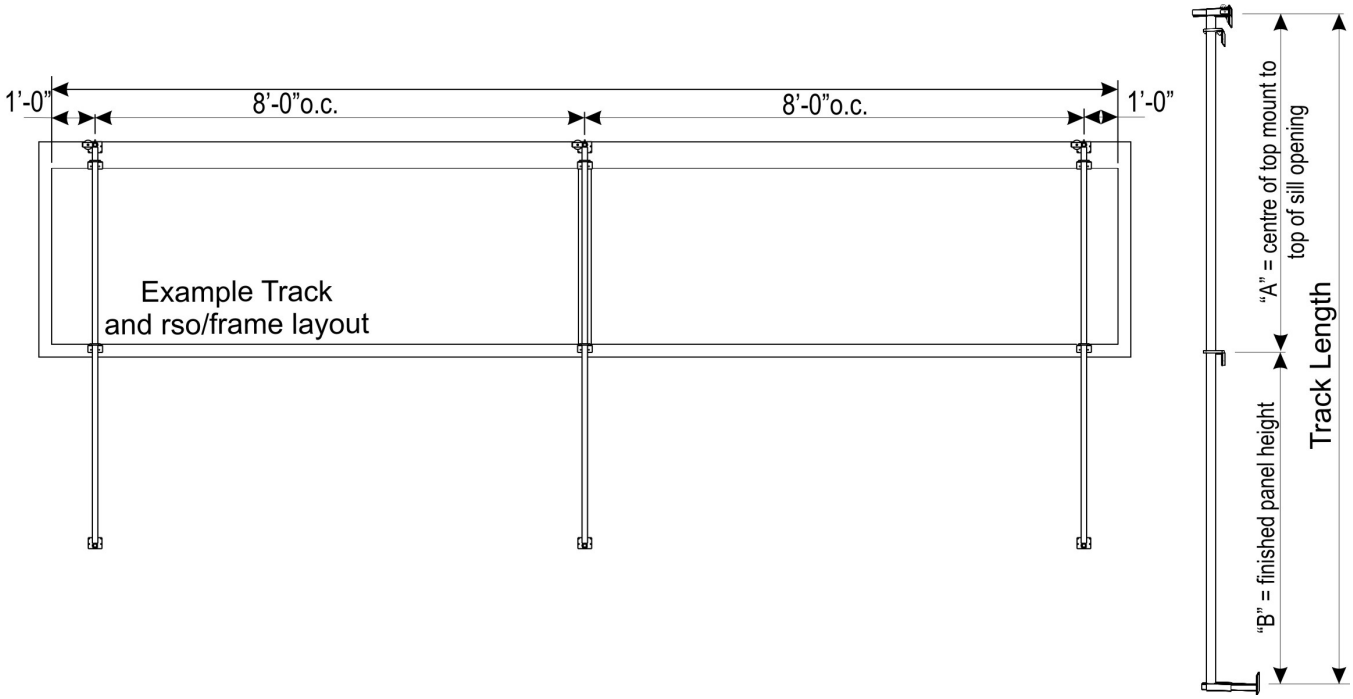
Standard Framing Detail



Installing the Nova-Lite Panel System

1. Layout the proper track spacing along the opening of the barn. We have enclosed a layout shown below as an example. Buildings may be different so some planning is required on your part to figure out the spacing of your track. You are not installing the track at this point, it must be known where your tracks are going to be installed before you begin. Typical track spacing 1’ from end and 8’ o/c.

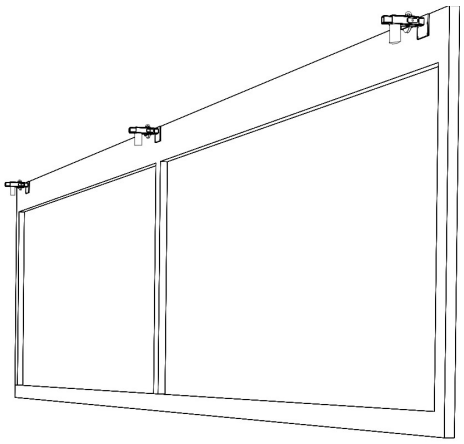
2. Mount the top brackets as per your layout drawings and keep an inch down from top of the header, secure with 1/4” x 2” lags.



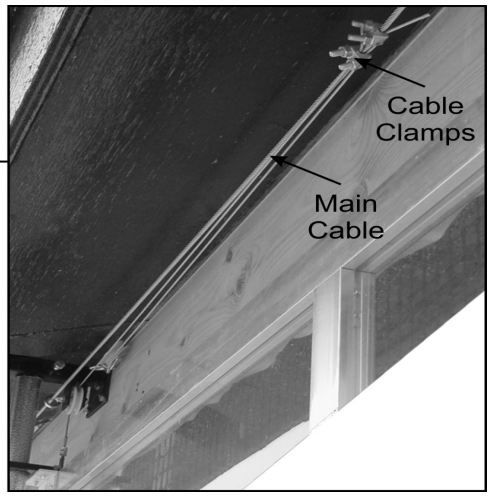
3. Establish track length from top bracket to the location where the bottom bracket is to be installed. The track length must allow the panel to open its full depth past the sill of the opening. This track length is Length “A” plus Length “B” plus ½” to equal track length.

Track Sizing Chart		
Opening Height	**Panel Height**	**Minimum Track Length**
24”	27”	60”
30”	33”	72”
36”	39”	84”
42”	45”	96”
48”	51”	108”
54”	57”	120”
60”	63”	132”
66”	69”	144”
72”	75”	156”

4. Mount the bottom brackets as per your layout drawings and ensure they line up with the top brackets (they must be level / plumb and fastened using Tapcons into the face of the concrete foundation or onto solid blocking in the wall (depending on the construction). Space between top and bottom brackets should be ½" longer than track length.



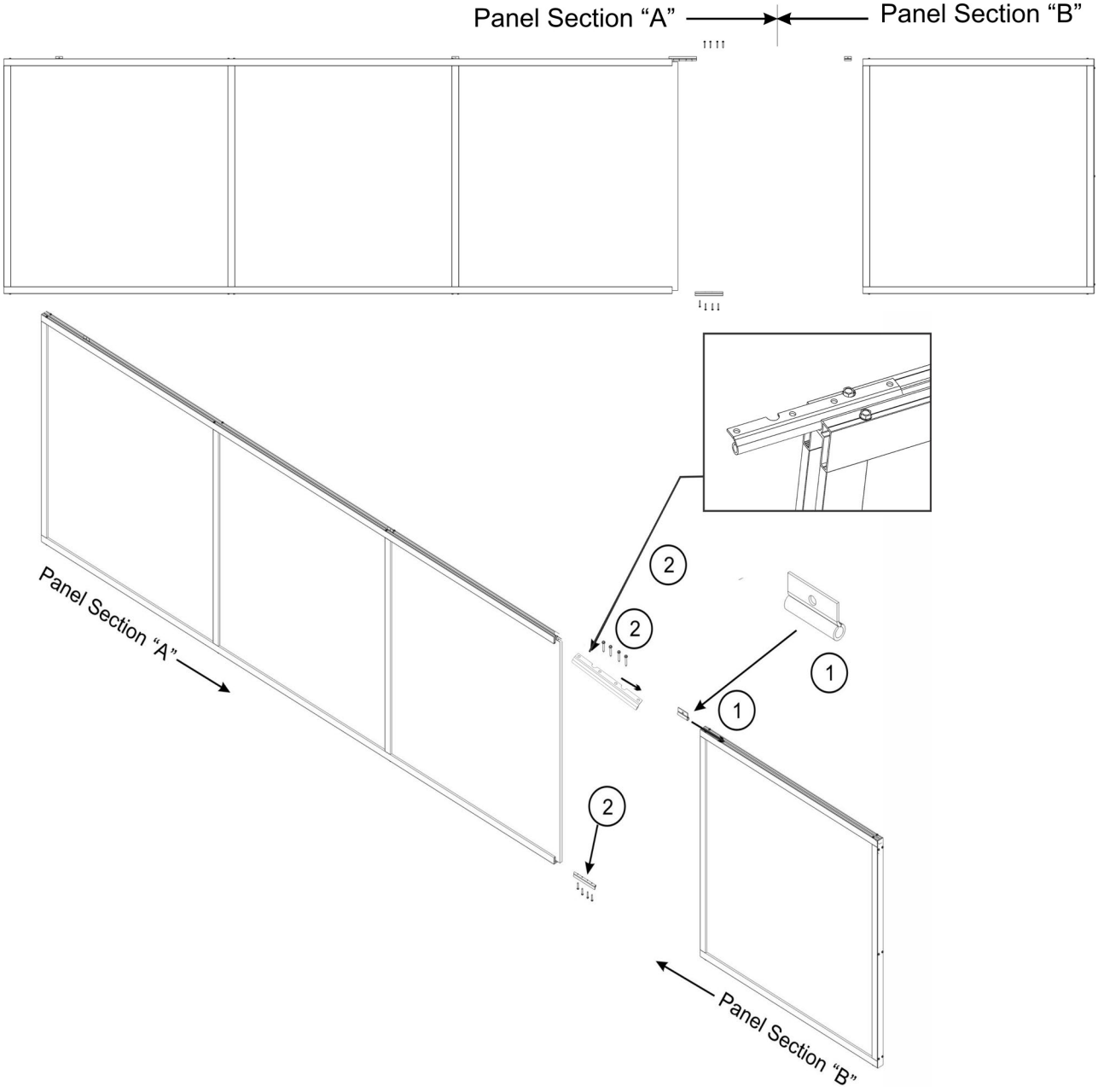
5. An extra pulley will need to be installed at the 2nd track from the pull (winch or actuator) end. Using a heavy 4" eyescrew and 2-1/2" steel pulley install them on the pull side of the 2nd track by inserting the threads through the mounting hole in the pulley. Place eye 2" down from top of header and just beside top bracket on pull side.



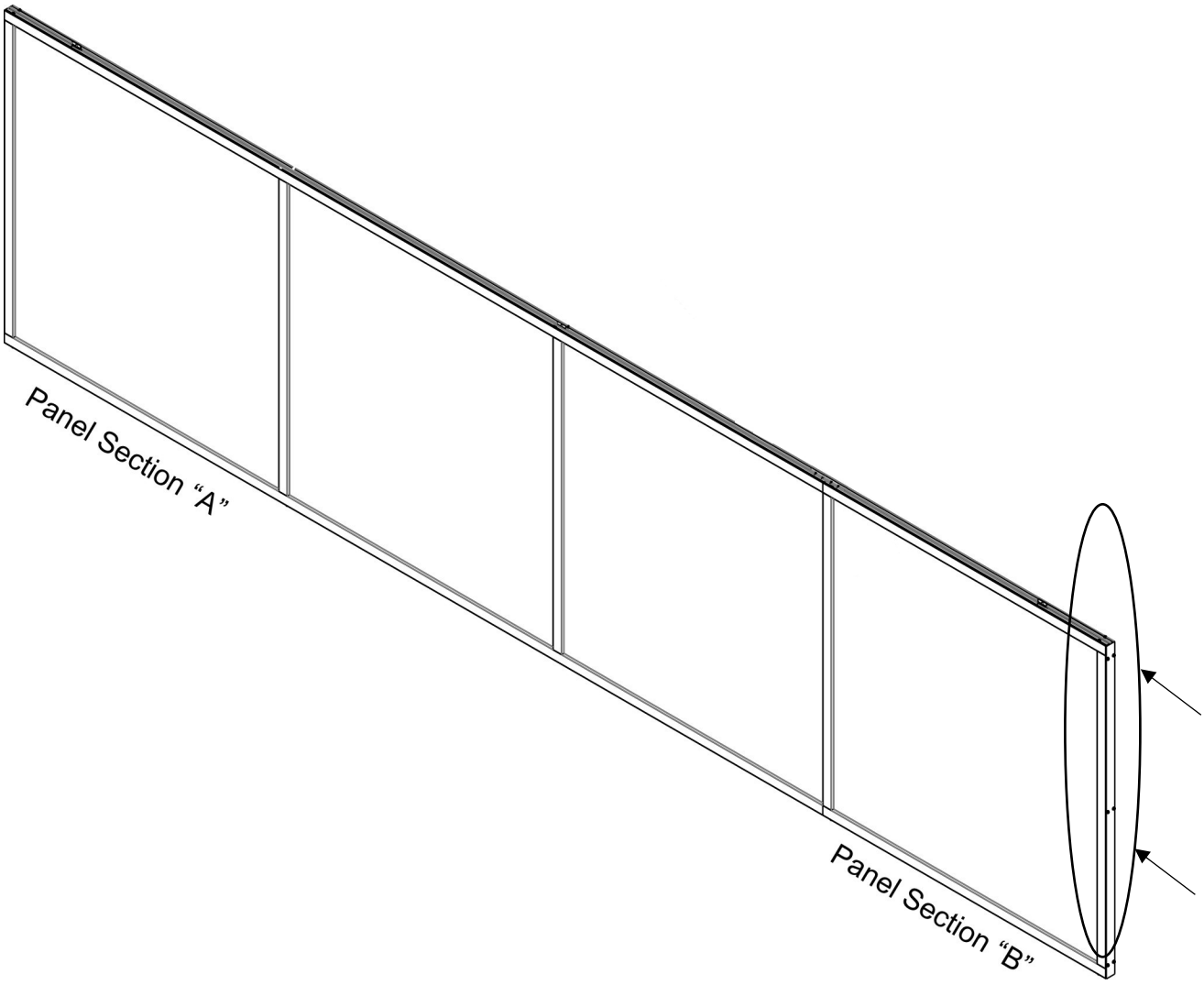
6. Set panels on bottom brackets, start with a reg panel (12’1” long) continue with reg panels until reaching the end of the opening, select the correct sized finishing panel to complete that opening.

7. Pick up tab (#1 below) - These tabs are shipped loose with the assembly and must be first installed into the upper frame, you will need 1 for each track. Leave loose in top frame at approximate location of track.

8. Panel Join Strip (#2 below) – 4 Hex head Tec screws used to fasten Panel Sections “A” to Panel Sections “B”. Slide panels together and center joiners. Ensure panels are fitted tightly together and fasten joiners to panels.



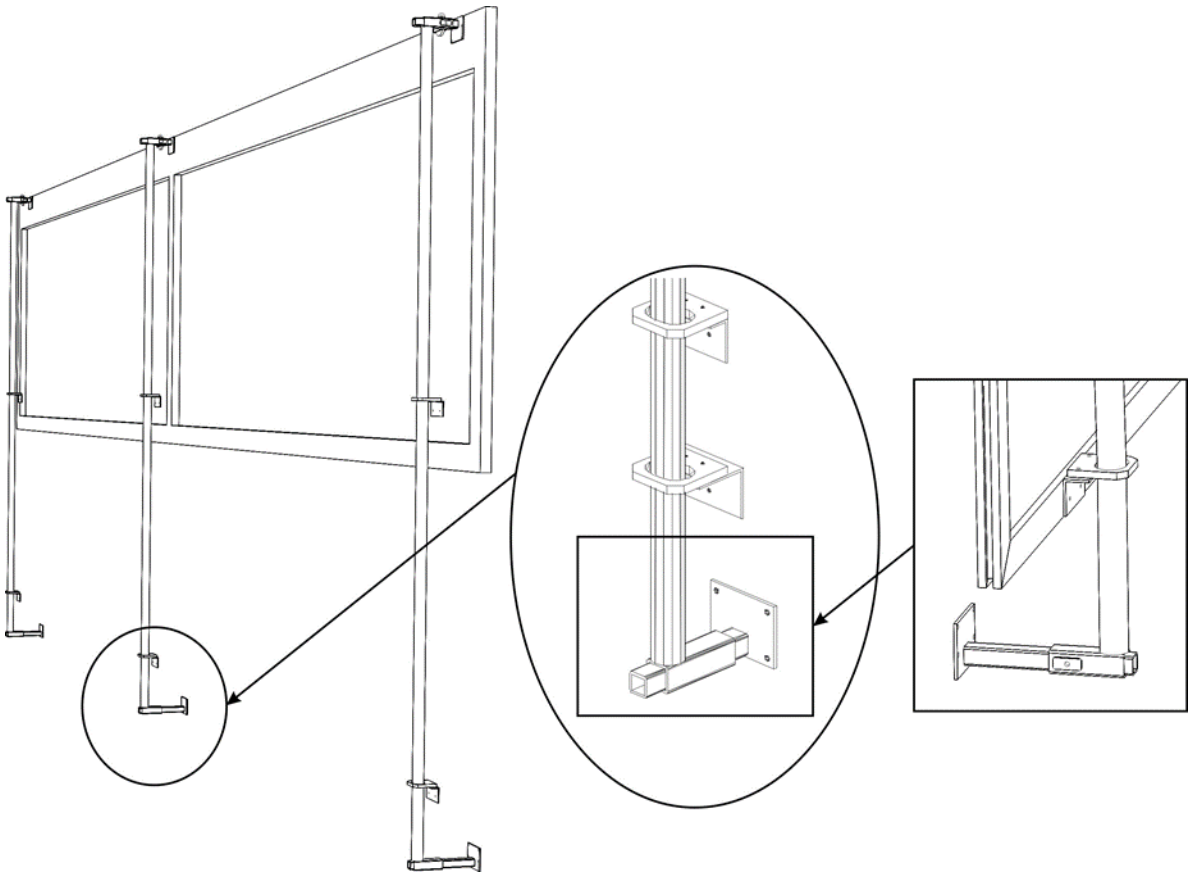
One polycarbonate panel material is loose in open end of regular panels



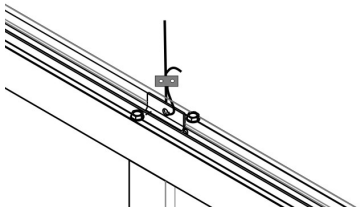
9. Fasten the SN850X0004 aluminum flat bar to each end of the finished panel using 6 hex head tec screws.

10. Install track, remove sliding portion of bottom bracket and insert in bottom of track, slide track onto top bracket and re-install bottom bracket. (do not tighten bracket jam bolts at this point)

Note: Always remember to install two panel track support guides onto each track as shown in the middle figure below. This must be done when the track is installed. The smaller of the two supports is to be mounted to the top end of the track while the larger support is for the bottom.

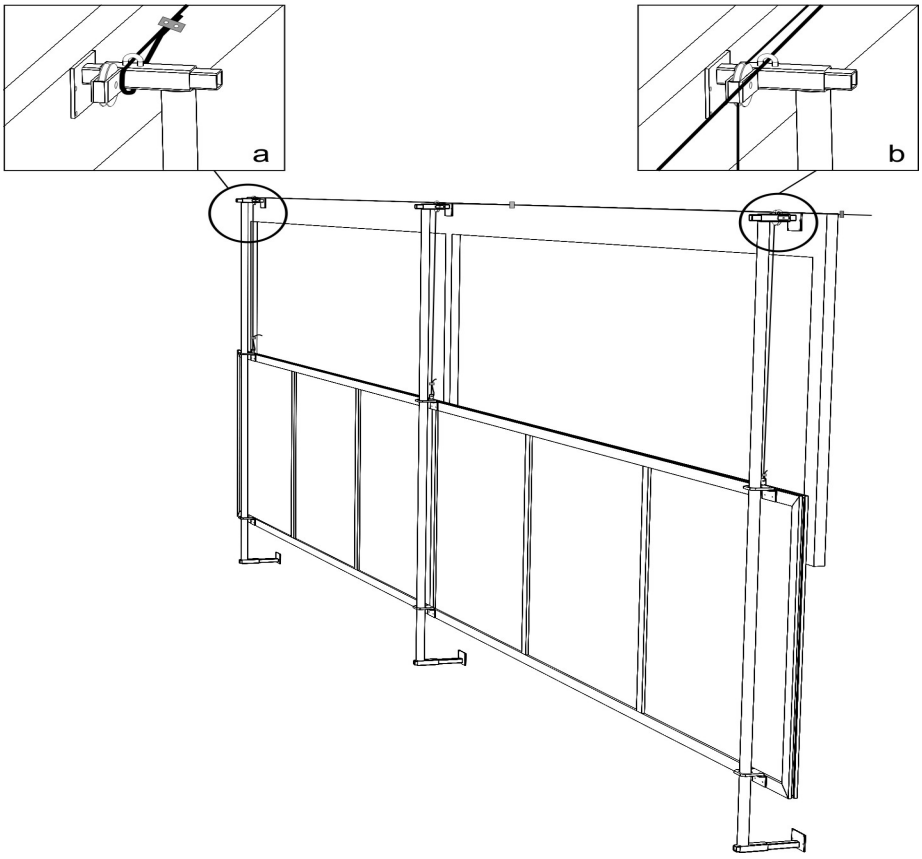


11. Prep your Nova-Lite panel with secondary cables (3/32” or 1/8” dependent on height of panels) Cut cable @ opening plus 18” for each track except the first track at pull end with double back pulley, it will need to be longer. by fastening them to the upper track clips (thimbles and cable clamps are used for the secondary installation). Insert thimble into hole on pickup tab, thread cable through and fasten with 1/8” cable clamp.

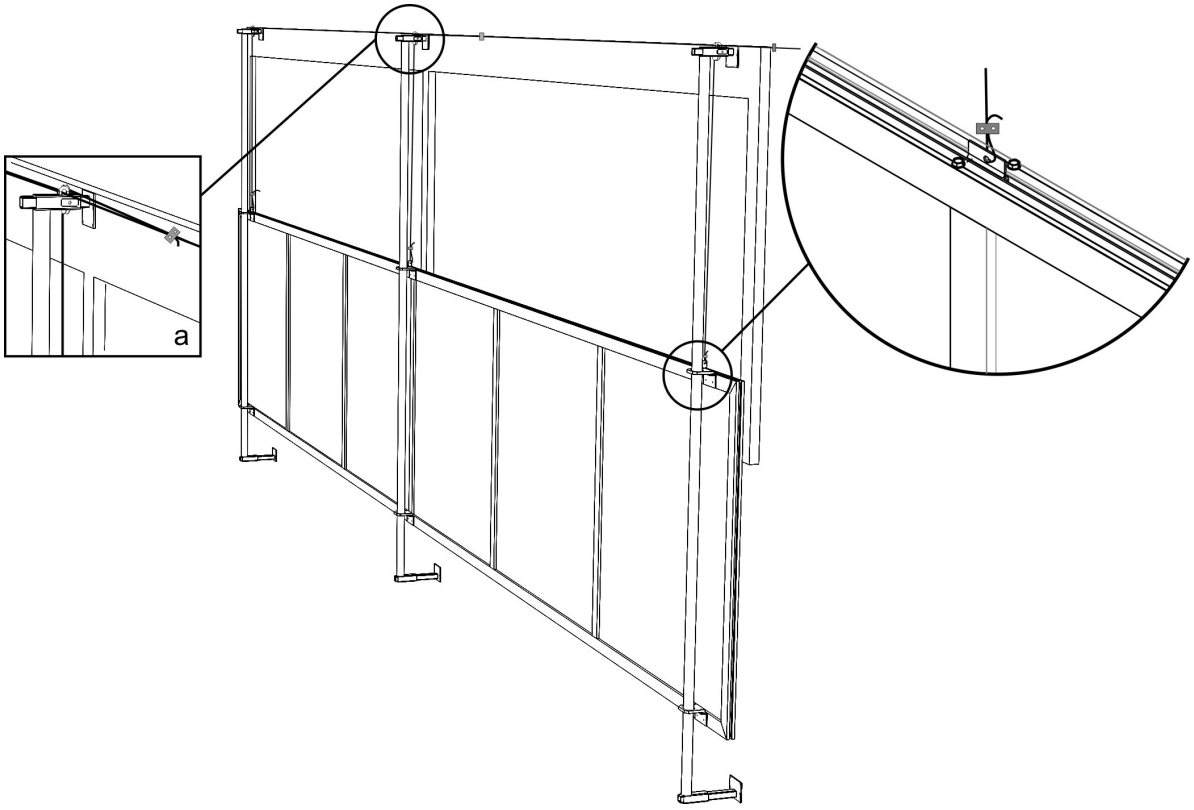


12. You must now determine the location of your winch/actuator and corner wheels. The placement must allow the main cable to run plumb with the corner wheel and just above the upper track bracket as shown.

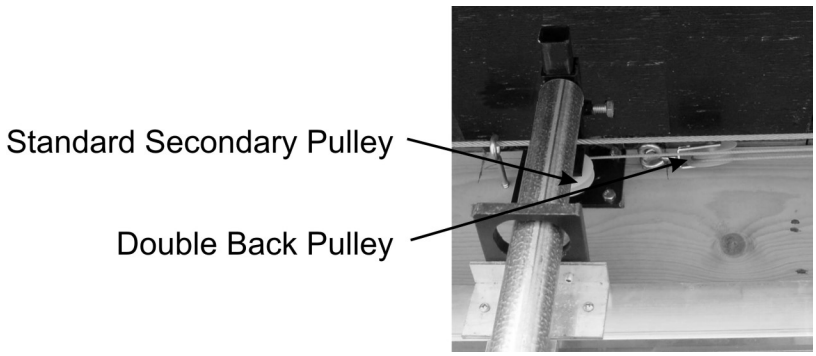
13. Hook up main pull cable around end upper track support and clamp as shown. (b) Hoop on upper bracket to carry main cable. The main cable is then put under tension using the winch or actuator. **Note:** Place 1 large cable clamp on main cable as its being installed on the pull side of each track.



14. Position the panel flush with the top of the sill. With the main cable under tension the secondary cables may now be hooked up. Start from pull end and work along panel. (a) Place secondary cable around pulley and clamp to main 8-12” away. Please ensure the thimbles and clamps are aligned correctly
Ensure panel is hooked up parallel to header.

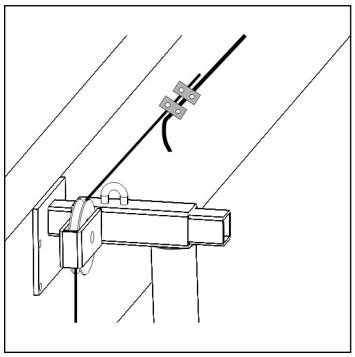


Double back secondary cable and standard secondary cable are clamped together to the main cable.



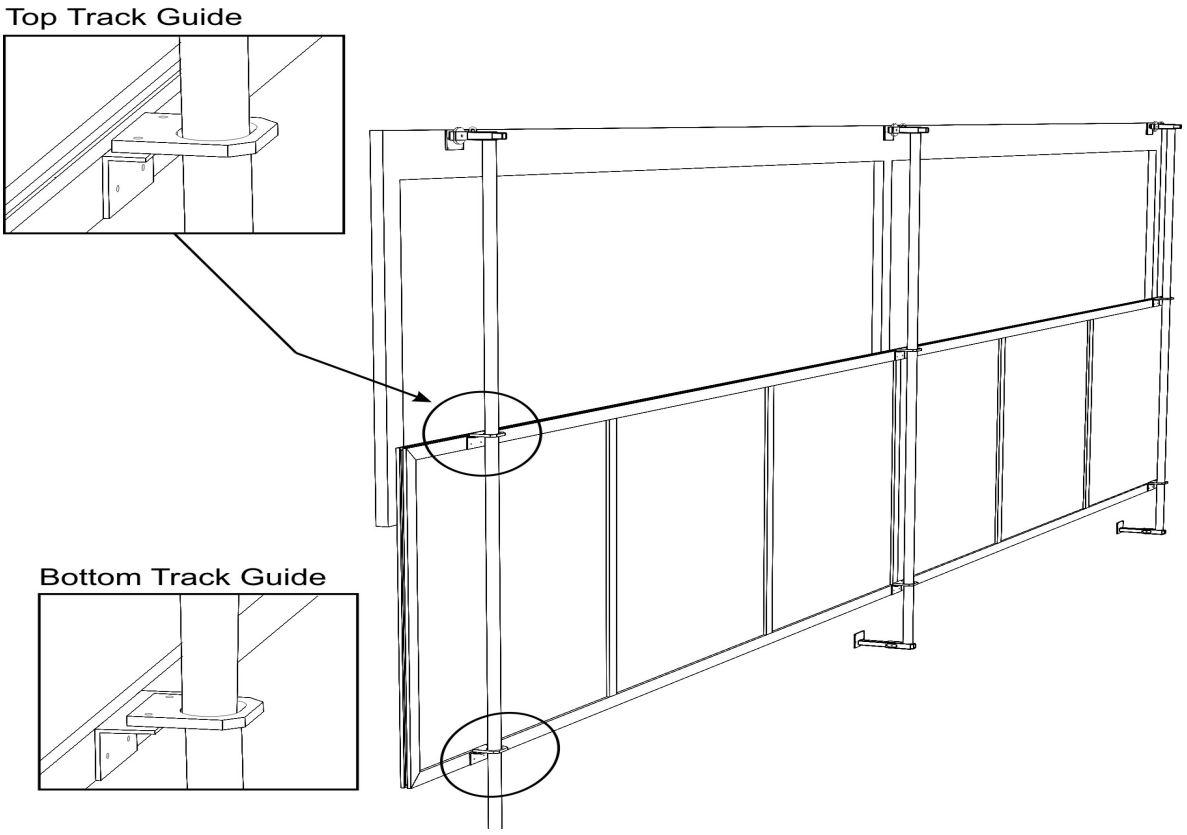
Secondary pull cable requiring a double back to allow travel into the end pulley and into the building.

15. You must now unfasten the cable clamp holding the main pull cable under tension and fasten the main cable end to the last secondary to complete the panel hookup. Check panel is parallel to the header, adjust as needed.

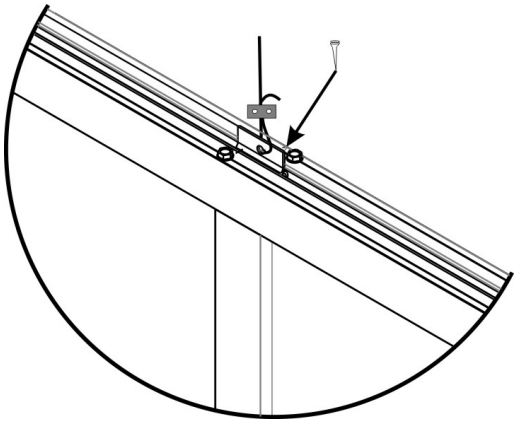


16. The top track guides can be fastened to the top of the panel using the hex head self-tapping screws that are provided with your system. Ensure panel is centered on opening and can't move sideways, center track guides on track.

17. Then install the bottom track guides to the face of the panel in a similar fashion.

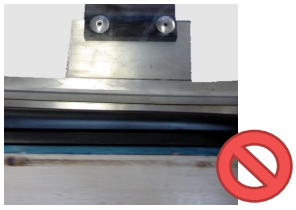


18. Operate the panel up and down to check for adjustments and that the secondary cables are plumb with the tracks. The clips used in the upper frame can be moved within the frame enabling this adjustment. You must then fasten the secondary track clip to the main panel frame using a hex head self-tapping screw on an angle through the round part of the clip into the main frame. This will prevent it from moving sideways.

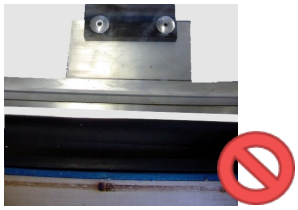


19. Raise the panel until the gasket seals evenly all around the framed opening.

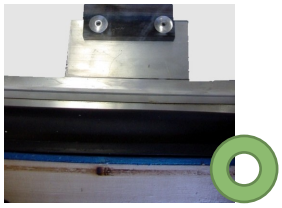
20. Top and Bottom track brackets must be adjusted to ensure a good seal around the entire opening. Gasket should just touch framing without being compressed more than 10%. Tighten jam bolts on top and bottom brackets once adjustments are complete.



Gasket Too Tight



Gasket Too Loose



Gasket Correct

21. Run panels up and down to ensure everything is functioning correctly. If you are using actuators ensure limit switches are set to prevent panel traveling to high or too low.